



Standardization & IETF Status



IETF TCP-Over-Satellite Working Group Status

- Important (new) developments within IETF community
 - Broad acknowledgment that non-congestion loss is a significant issue in TCP performance
 - Realization that per-connection tuning (e.g. of buffer sizes) is not feasible for general use
 - Understanding that similar problems are experienced by other environments -- not just a satellite problem
 - Acceptance of gateway/proxy/spoofing approaches as near-term work-arounds to TCP shortcomings



IETF TCP-Over-Satellite Working Group Status

- Results
 - TCP Standard Mechanisms draft being revised
 - Interest in documenting a broad range of Performance Enhancing Proxies
 - Workshop of interested researchers addressing similar problems to be held at JPL in August '98



Military Standards

- Status
 - Approved by IXMP WG after SD-1 coordination
 - Awaiting SIE approval prior to being sent to DODSSP for printing
- Document numbers:
 - SCPS-NP: MIL-STD 2045-43000
 - SCPS-SP: MIL-STD 2045-43001
 - SCPS-TP: MIL-STD 2045-44000
 - SCPS-FP: MIL-STD 2045-47000



International Standardization Status

- Background
 - Standards being progressed to ISO through Consultative Committee for Space Data Systems
- Status
 - CCSDS at “Stable Red Book”
 - Planned to go to CCSDS Blue Book and ISO Standard concurrently, September 1999
- Document numbers:
 - SCPS-NP: ISO DIS 15891 (CCSDS 713.0)
 - SCPS-SP: ISO DIS 15892 (CCSDS 713.5)
 - SCPS-TP: ISO DIS 15893 (CCSDS 714.0)
 - SCPS-FP: ISO DIS 15894 (CCSDS 717.0)

For More Information

- Consult the SCPS Web site: www.scps.org/scps
- Consult the SCPS Sponsors:
 - Maj. Jeffrey Cole, SMC/AXES, 310-363-2440,
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 - Mr. Leigh Torgerson, NASA/JPL, 818-393-0695,
ltorgerson@jpl.nasa.gov
- Consult the developers (contact info on web page):
 - Mr. Robert C. Durst (SCPS-NP, SCPS-TP, and
Reference Implementation)
 - Mr. Howard Weiss (SCPS-SP)
 - Mr. Steve Sides (SCPS-FP)
 - Mr. Fred Brosi (Rationale)